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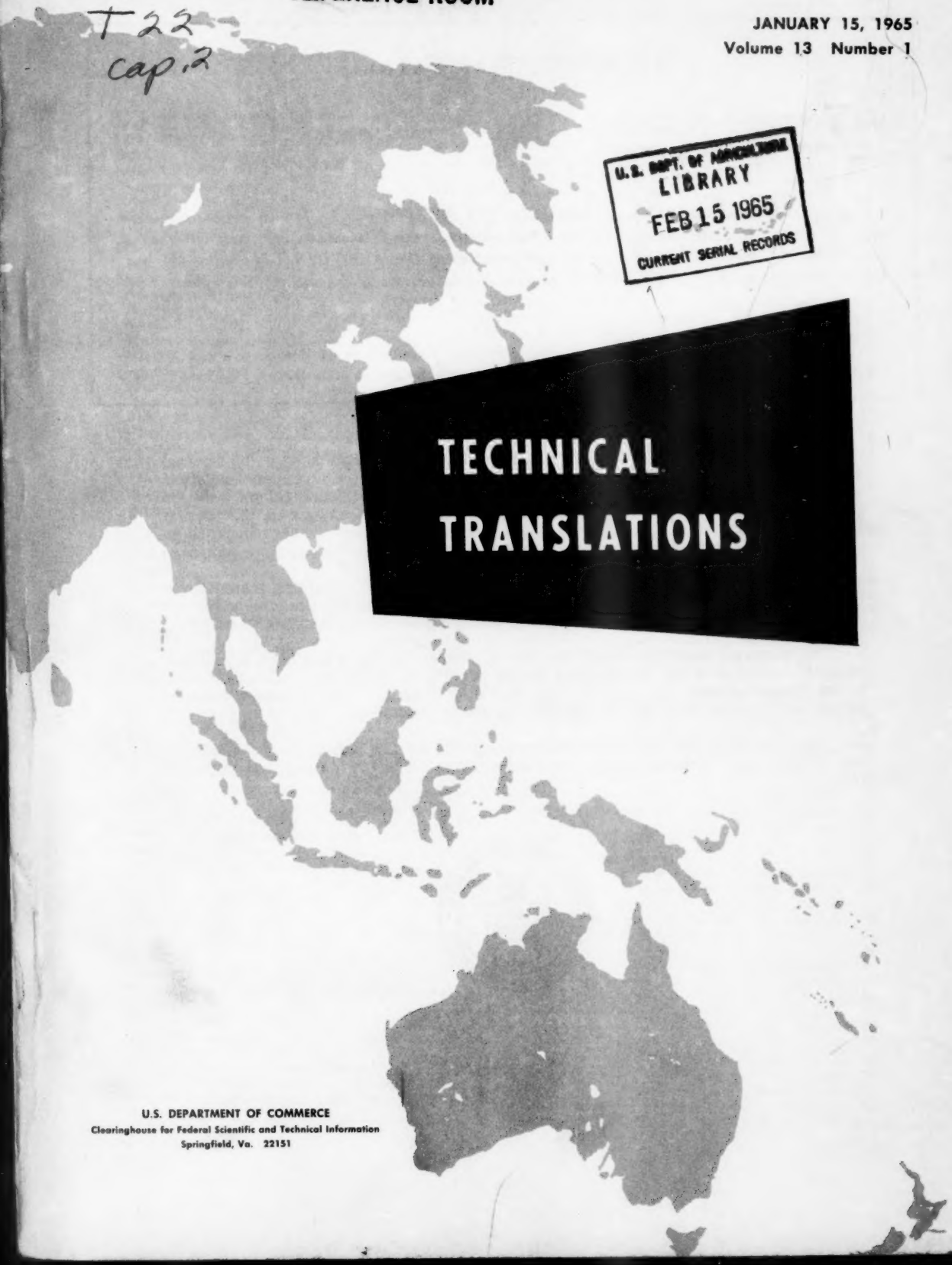

TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
Clearinghouse for Federal Scientific and Technical Information
Springfield, Va. 22151

TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
Luther H. Hodges, Secretary

Clearinghouse for Federal
Scientific and Technical Information
Bernard M. Fry, Director

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Use of funds for printing this publication approved by the Director of the Bureau of the Budget, November 22, 1961

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SPECIAL Announcements

COMMERCE ESTABLISHES "CLEARINGHOUSE FOR FEDERAL SCIENTIFIC AND TECHNICAL INFORMATION"

A Clearinghouse for Federal Scientific and Technical Information to serve as the central source for Government research data in the physical sciences and engineering has been established in the U. S. Department of Commerce, and has taken over the document distribution program of the Office of Technical Services.

Development of the Clearinghouse was endorsed last February by the Federal Council for Science and Technology, an advisory body to the President. The Council specifically calls for the Clearinghouse to serve as the single agency through which unclassified technical reports and translations generated by all Government agencies are uniformly indexed and made available to the public; provide information on Federal research in progress; and operate a referral service to sources of specialized technical expertise in the Government.

The Clearinghouse has completed its programming and expansion of staff and facilities and is now carrying out these missions. The agency is using computer and other modern data processing and reproduction equipment and techniques in order to speed and increase the flow of technical information to scientists and engineers throughout the country. To further increase efficiency, all Clearinghouse personnel and facilities were established in a new building in Springfield, Va., near Washington, in October.

The Clearinghouse is a part of the new Institute for Applied Technology in the National Bureau of Standards. The Institute is headed by Dr. Donald A. Schon. The director of the Clearinghouse is Bernard M. Fry.

In addition to providing research information to industry, the Clearinghouse is designed to reduce duplication in both industry and Government in research and information processing. Savings to the Government of about $500,000 will be realized during the first year of operation as a result of reducing duplication of document processing and distribution within the Government.

A major step in this direction was a recent agreement between the Department of Commerce and the Department of Defense whereby the Clearinghouse assumed the task of processing all unclassified/unlimited DoD research reports, as well as reproduction and distribution of these documents to both the public and DoD agencies and contractors.

Hereafter, orders for documents formerly handled by OTS should be addressed to Clearinghouse, U. S. Department of Commerce, Springfield, Va. 22151.

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AD and NASA ACCESSION NUMBERS

Effective with this issue, translations received by the Clearinghouse with AD or NASA accession numbers will be announced under those numbers. They no longer will carry a separate TT number in the journal announcement.

Please order these documents by the accession number indicated for each entry.

HOW TO ORDER TRANSLATIONS

The translations reported in this issue are arranged under the categories indicated in the Contents. The sub-groups of the categories are flexible and used only when there are several translations in a particular sub-group. When the subject of a sub-group is not included in the Contents, reference should be made to the general category into which it falls.

References to sources of original text are given as they appear on the translation, with sufficient editing to assure uniformity in citations.

Some of the translation notes for individual translations have been marked with the symbol (#) preceding the name of the journal. This symbol indicates that the particular journal is also translated cover-to-cover.

Listed below are agencies from which translations may be purchased. Each entry in the Technical Translations indicates by symbol the agency from which the translation should be ordered, the cost of the translation (if known), and the number by which the translation may be ordered, if such a number exists. Make check or money order payable to the agency indicated.

SYMBOLS FOR SOURCES OF TRANSLATIONS

AC
A. Capelo
P. O. Box 46354
Hollywood,
California 90046

AGI
AGI Translations Office
American Geological Institute
1444 N Street, N. W.
Washington, D. C. 20005

AGS
American Geographical Society
Broadway at 156th Street
New York, New York 10032

AGU
American Geophysical Union
Suite 506, 1145-19th Street, N. W.
Washington, D. C. 20036

AIAA
American Institute of Aeronautics and Astronautics
500 Fifth Avenue
New York, New York 10036

AIBS
American Institute of Biological Sciences
2000 P Street, N. W.
Washington, D. C. 20006

AIP
American Institute of Physics
335 East 45th Street
New York, New York 10017

AIS
Argus Information Service
624 N. Eutaw Street
Baltimore, Maryland 21201

AM
Acta Metallurgica
122 East 55th Street
New York, New York 10022

AMS
American Mathematical Society
190 Hope Street
Providence, Rhode Island 02906

ANSP
Academy of Natural Sciences of Philadelphia
19th St. and the Parkway
Philadelphia, Pennsylvania 19103

API
Academic Press, Inc.
111 Fifth Ave.,
New York, New York 10003

ARS
American Rocket Society, Inc.
20th and Northampton Streets
Easton, Pennsylvania 18042

ATS
Associated Technical Services, Inc.
P. O. Box 271
East Orange, New Jersey 07017

BGIRA
British Glass Industry Research Association
Northumberland Road
Sheffield 10, England

BIHR
Circulation Manager
Translations of the Beltone Institute for Hearing Research
2900 West 36th Street
Chicago, Illinois 60632

BISI
British Iron & Steel Industry Translation Service
The Iron and Steel Institute
4, Grosvenor Gardens
London, S. W. 1, England

BWRA
British Welding Research Association
Abington Hall, Abington
Cambridge, England

CB
Consultants Bureau Enterprises Inc.
227 West 17th Street
New York, New York 10011

CCT
Consultants Custom Translations Inc.
227 West 17th Street
New York, New York 10011

CHP
Cleaver-Hume Press, Ltd.
31, Wright's Lane
London, W. 8, England

CID
Centro de Informacion y Documentacion
Patronato Juan de la Cierva,
Serrano 150, Apartado 743,
Madrid 6, Spain

CIDNT
Centralny Instytut Dokumentacji Naukowo-Technicznej
Warszawa 12
Aleja Niepodlegiosci 188
Poland

CNP
Comitato Nazionale per la Produttivita
Service d'Information
Viale Regina Margherita N. 83D
Rome, Italy

CNRS
Centre National de la Recherche Scientifique
Centre de Documentation
15 Quai Anatole France
Paris 7, France

CSIRO
Commonwealth Scientific and Industrial Research Organization
Information Service
314 Albert Street
East Melbourne C. 2, Victoria
Australia

CTRA
The Librarian
The Coal Tar Research Association
Oxford Road
Gomersal, Leeds, England

CTS (Chem)
Chemical Translating Service
2243 Greer Road
Palo Alto, California 94300

CTT
Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DI
Circulation Unit
Department of the Interior
Central Library
Room 1149
Washington, D. C. 20240

DTC
Danish Translations Centre,
c/o Library of the Danish Atomic Energy Commission,
Riso. Roskilde, Denmark

EIS
Engineering Information Services
Kirkham, Preston, Lancashire,
England

ES
Erica Stux
584 Moreley Avenue
Akron, Ohio 44320

ETC
European Translations Centre
Doelenstraat 101, Delft,
The Netherlands

FASEB
Federation of American Societies for Experimental Biology
9650 Wisconsin Avenue
Washington, D. C. 20014

FRI
Fulmer Research Institute, Ltd.
Stoke Poges,
Buckinghamshire,
England

FT
Faraday Translations
15 Park Row
New York, New York 10038

GB
Gordon and Breach
Publishers, Inc.
150 Fifth Avenue
New York, New York 10011

GPO
Superintendent of Documents
Government Printing Office
Washington, D. C. 20402

GPRC
Geophysical & Polar Research Center
6021 S. Highland Road
Madison, Wisconsin 53706

HB
Henry Brutcher
P. O. Box 157
Altadena, California 91001

HMSO
Her Majesty's Stationery Office
P. O. Box 569
London, S. E. 1, England

HTCBN
Hungarian Trading Company for Books and Newspapers "Kultura"
Budapest 62, P. O. Box 149

ICE
International Chemical Engineering
345 East 47th Street
New York, New York 10017

IEEE
Institute of Electrical & Electronics Engineers
275 Madison Avenue
New York, New York 10016

INFOSERV
Infoserv
P. O. Box 217
West Hartford, Conn. 06097

INT
International Patent Service N. V.
P. O. Box 101
's-Hertogenbosch,
The Netherlands

IP
Interscience Publishers, Inc.
250 Fifth Avenue
New York, New York 10001

IPST
Israel Program for Scientific Translation
Kiryat Moshe
P. O. Box 7145
Jerusalem, Israel

ISA
Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

K-H
Kresge-Hooker Science Library Associates
Wayne State University
Detroit, Michigan 48202

LAND-AIR
Land-Air, Inc.
Pacific Missile Range
Point Mugu, California 95468

LC
Photoduplication Service
Publication Board Project
Library of Congress
Washington, D. C. 20540

LSA
Literature Service Associates
Route 1
Bound Brook, New Jersey 08805

MACL
Maclaren and Sons, Ltd.
Maclaren House
131 Great Suffolk Street
London, S. E. 1, England

MACM
Macmillan Co.
60 Fifth Avenue
New York, New York 10011

MDF
Morris D. Friedman
7553 Waterford Drive
San Jose, California 95129

MPIK
Max-Planck-Institut fur Kohlenforschung
Bibliothek der Abteilung Strahlenchemie Stiftstrasse 34-36
433 Mulheim and der Ruhr,
West Germany

MT
M. de O. Tollemache
Pennyford Cottage,
Burrington,
Umberleigh, Devon, England

MUL
Mulholland Engineering Translations
26 Burton Woods Lane
Cincinnati, Ohio 45229

NASA
National Aeronautics and Space Administration
1520 H Street, N. W.
Washington, D. C. 20546

NRCC
National Research Council
Library
Ottawa 2, Canada

OB
Oliver & Boyd, Ltd.
Tweeddale Court
14 High Street
Edinburgh 1, Scotland

OSA
Optical Society of America, Inc.
33 University Road
Cambridge, Massachusetts 02138

OTS
Clearinghouse for Federal Scientific & Technical Information (Formerly Office of Technical Services)
Port Royal & Braddock Roads
Springfield, Virginia 22151
(Also available through Department of Commerce Field Offices)

PERA
The Information Manager
Production Engineering Research Association
Melton Mowbray
Leicestershire, England

PLP
Plenum Press, Inc.
227 West 17th Street
New York, New York 10011

PP
Pergamon Press
122 East 55th Street
New York, New York 10022

PS
Primary Sources
11 Bleecker Street
New York, New York 10012

RIA
Research International Associates
1522 Connecticut Avenue, N. W.
Washington, D. C. 20006

RIS
Research Information Service
Div. of Maxwell Scientific International, Inc.
122 East 55th Street
New York, New York 10022

RIS
Research Information Service
Div. of Pergamon International Corp.
122 East 55th Street
New York, New York 10022

SA
Seizaburo Aoki
Japanese Language Translation Service
15/2027 Chogo
Fujisawa, Japan

SIAM
Business Manager
SIAM Publications
Box 7541
Philadelphia, Pennsylvania 19100

SIC
Scientific Information Consultants Limited
661 Finchley Road
London N. W. 2, England

SLA
SLA Translations Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

ST
Scripta Technica, Inc.
1000 Vermont Avenue, N. W.
Washington, D. C. 20005

STS
Scientific Translation Service
1938 Verdugo Knolls Drive
Glendale, California 91200

STT
SCIENTECH, Scientific & Technical Translations
P. O. Box 3530
Cleveland, Ohio 44118

TDL
Mr. John Wiley
Technical Development Laboratories
P. O. Box 769
Savannah, Georgia 31400

TF
Taylor and Francis Ltd.
Red Lion Court, Fleet Street
London, E. C. 4, England

TIB
Technische Informationsbibliothek
Am Welfengarten 1,
Hannover, West Germany

TIC
Technical Information Company
Patents Department
Chancery House
Chancery Lane
London, W.C. 2, England

TTIS
Translation & Technical Information Services
32 Manaton Road
London, S. E. 15, England

WBI
Warren Birkenhead, Inc.
901 Northern Life Tower
Seattle, Washington 98101
or
No. 25, 2-Chome, Shiba Hamamatsu-Cho
Minato-Ku, Tokyo, Japan

CUMULATIVE INDEXES

The following Cumulative Indexes for Technical Translations are available from Superintendent of Documents, Government Printing Office, Washington, D. C. 20402:

Volume 9	January - June	1963	$1.00
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Volume 7	January - June	1962	$1.00
Volume 6	July - December	1961	$1.00
Volume 5	January - June	1961	$1.00
Volume 4	July - December	1960	$1.00
Volume 3	January - June	1960	$1.00
Volume 2	July - December	1959	$3.00
Volume 1	January - June	1959	$1.50

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TECHNICAL TRANSLATIONS

Volume 13, Number 1 | Pages 1 - 66 | January 15, 1964

AGRICULTURE

COMMUNIST CHINA'S FOOD AND AGRICULTURE: TRANSLATIONS NO. 3. 13 Aug 64, 20p
JPRS: 25905.
Order from OTS HC $1.00, MF $0.50 TT-64-41176

Consists of 5 articles from Jul 64 issues of Communist Chinese newspapers.

EAST EUROPEAN AGRICULTURE, FORESTRY, AND FOOD INDUSTRIES: TRANSLATIONS NO. 274.
7 Jul 64, 46p JPRS: 25362.
Order from OTS HC $1.25, MF $0.50 TT-64-31635

Trans. of 4 selected articles from Mar-Apr 64 issues of various Bulgarian, East Germany, and Rumanian journals.

Separate entries have been prepared for the individual articles.

EAST EUROPEAN AGRICULTURE, FORESTRY, AND FOOD INDUSTRIES: TRANSLATIONS NO. 284.
13 Aug 64, 138p JPRS: 25892.
Order from OTS HC $4.00, MF $1.00 TT-64-41163

Consists of 12 articles from Mar-Jun 64 issues of various journals from Bulgaria, Hungary, Poland, Rumania, and Yugoslavia.

EAST EUROPEAN AGRICULTURE, FORESTRY, AND FOOD INDUSTRIES: TRANSLATIONS NO. 295.
11 Sep 64, 27p JPRS: 26350.
Order from OTS HC $2.00, MF $0.50 TT-64-41609

Consists of 3 articles from Jun-Jul 64 issues of journals from Poland and Yugoslavia.

GROWTH OF COTTON PRODUCTION ENJOINED [AND] OVERCOMING LIME DEPOSITS. Communist China's Food and Agriculture: Translations no. 4. 24 Aug 64, 9p JPRS: 26096.
Order from OTS HC $1.00, MF $0.50 TT-64-41357 I

Trans. of 2 selected articles from Aug 64 issues of the Chinese newspapers Ta Kung Pao and Jen Min Jih Pao.

RECONSTRUCTION AND PROGRESS OF AGRICULTURE. 7 Jul 64, 20p JPRS: 25362 (p. 6-25).
Order from OTS HC $1.25, MF $0.50 in TT-64-31635 (p. 6-25)

Trans. of Naruchnik na Agitatora (Bulgaria) 1964 [v. 19] no. 10/13, p. 49-71.

SOVIET AGRICULTURE: TRANSLATIONS NO. 32.
20 Aug 64, 165p JPRS: 26039.
Order from OTS HC $5.00, MF $1.25 TT-64-41309

Consists of 11 articles from Mar-May 64 issues of Russian journals and newspapers.

SOVIET AGRICULTURE: TRANSLATIONS NO. 36.
11 Sep 64, 27p JPRS: 26359.
Order from OTS HC $2.00, MF $0.50 TT-64-41618

Consists of 6 articles from Jun-Jul 64 issues of Russian newspapers and journals.

Danchev, Vladimir.
LIVESTOCK PRICES AND THE PRICE ESTABLISHMENT SYSTEM. 7 Jul 64, 5p JPRS: 25362 (p. 1-5).
Order from OTS HC $1.25, MF $0.50 in TT-64-31635 (p. 1-5)

Trans. of Otchetnost i Kontrol v Selskoto Stopanstvo (Bulgaria) 1964 [v. 9] no. 4, p. 181-184.

Densch, A., Giesecke, F., Helbig, M., Hess, V. F., and Schubert, J.
THE PHYSICAL CHARACTERISTICS OF THE SOIL (Die Physikalische Beschaffenheit des Bodens). [1049p]
Order from SLA $38.50 TT-60-16714

Trans. in manuscript of mono. Handbuch der Bodenlehre (Handbook on the Knowledge of the Soil) ed. by E. Blanck, v. 6, Berlin, 1930, 423p.

Gruici, C.
ASPECTS OF THE DEVELOPMENT OF SOCIALIST PRODUCTION RELATIONS IN THE COLLECTIVE SECTOR. 7 Jul 64, 17p JPRS: 25362 (p. 30-46).
Order from OTS HC $1.25, MF $0.50 in TT-64-31635 (p. 30-46)

Trans. of Probleme Economice (Rumania) 1964, v. 17, no. 4, p. 13-27.

Il'in, P., Evstratov, A., and Kitaev, A.
NEW HAY-STACKING MACHINE STILL NOT ADOPE ADOPTED [AND] EFFECTIVE METHODS OF TRANSPORTING MINERAL FERTILIZERS. USSR Industrial Development: Soviet Tractors and Agricultural Machinery No. 137. 14 Sep 64, 11p JPRS: 26375.
Order from OTS HC $0.50, MF $0.50 TT-64-41634

Trans. from Ekonomicheskaya Gazeta (USSR) 1964, no. 27[152] p. 11; Avtomobil'nyi Transport (USSR) 1964 [v. 42] no. 3, p. 3-5.

Tuchscheerer, Gerda.
CONSTITUTING OF THE RESEARCH GROUP "PLANNING AND ACCOUNTING OF LABOR PRODUCTIVITY ON THE FACTOR BASIS IN SOCIALIST AGRICULTURE". 7 Jul 64, 4p JPRS: 25362 (p. 26-29).
Order from OTS HC $1.25, MF $0.50 in TT-64-31635 (p. 26-29).

Trans. of Wirtschaftswissenschaft (East Germany) 1964 [v. 12] no. 4, p. 646-648.

Animal Husbandry

USSR STOCK BREEDING. 27 May 64, 27p 25refs JPRS: 24796.
Order from OTS HC $0.75, MF $0.50 TT-64-31346

Trans. of Vestnik Sel'skokhozyaistvennoi Nauki, Alma Ata (USSR) 1963 [v. 6] no. 12, p. 56-73.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

Budnik, V. S.
NEW DATA ON THE MECHANISM CONTROLLING THE TRANSMISSION OF NUTTALLIA EQUI TO HORSES BY DERMACENTOR MARGINATUS SULZ (Novye Dannye o Mekhanizme Peredachi Vozbuditelya Nuttallioza Loshadei Pastbishchnym Kleshchom (Dermacentor Marginatus Sulz))
J. A. Collins, tr. [22p] (foreign text included) [CSIRO] Trans. no. 6992.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-19853

Trans. of Veterinariya (USSR) 1955, v. 32, no. 8, p. 36-43.

Legibility of this document is in part unsatisfactory. Reproduction has been made from best available copy.

Ch'eng, Shao-chiung.
VETERINARY MEDICINE IN THE PEOPLE'S REPUBLIC OF CHINA. 21 Apr 64, 3p JPRS: 24268 (p. 22-24).
Order from OTS $0.75 in TT-64-31109 (p. 22-24)

Trans. from Bashkimi (Albania) 1964, 21 Mar, p. 3.

Laptev, V. I.
DEVELOPMENT OF THEILERIA SERGENTI YAKIMOFF ET DEKHTEREFF, 1930, IN TICKS (Materialy po Izucheniyu Razvitiya Theileria Sergenti Yakimoff et Dekhtereff, 1930, v Kleshchakh)
B. Bergmanis, tr. [12p] (foreign text included) 7refs [CSIRO] Trans. no. 6814.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-19850

Trans. of Vsesoyuznyi Institut Eksperimental'noi Veterinarii. Trudy (USSR) 1963, v. 28, p. 124-128.

Legibility of this document is in part unsatisfactory. Reproduction has been made from best available copy.

Plant Cultivation

FERTILIZERS FOR POTATOES AND SUGAR BEETS AND NUTRIENT MIXTURES IN HYDROPONICS. 11 Aug 64, 45p 21refs JPRS: 25846.
Order from OTS HC $2.00, MF $0.75 TT-64-41117

Trans. of Agrokhimiya (USSR) 1964, no. 2, p. 22-31, 42-52, 56-63.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

STUDIES IN PLANT NUTRITION, FERTILIZATION, AND SEED TREATMENT. 11 May 64, 41p 9refs JPRS: 24543.
Order from OTS HC $1.25, MF $0.50 TT-64-31237

Trans. of Vestnik Sel'skokhozyaistvennoi Nauki (USSR) 1964 [v. 9] no. 1, p. 5-15, 19-25, 46-52, 128-130, 139-144.

For table of contents see "Periodical Translated Cover-to-Cover" section of this issue.

Kontorshchikov, A. S. and Eremina, K. A.
INTERCEPTION OF PRECIPITATION BY SPRING WHEAT DURING THE GROWING SEASON
D. B. Krimgold, tr. Jul 64, 10p 12refs.
Order from AGU $7.50 in Soviet Hydrology: Selected Papers, 1963, no. 4, p. 400-409

Trans. of T[sentral'nyi] I[nstitut] P[rognozov]. Trudy (USSR) 1963, v. 131, p. 42-52.

Kuzin, A.M.
UTILISATION EN AGRICULTURE DE L'IRRADIATION DES SEMENCES AVANT PLANTATION. Org.84-R.1664.
Order from CNRS G/R-2893

Trans. in French of Vestnik Sel'skokhozyaistvennoi Nauki (USSR) 1960, v.5, no.7, p.127-130.
Other translations are available in English from OTS $0.50 as TT-63-11054, PL-480 Agr, 1963, 3p; and in French from OTS, SLA, or ETC $1.10 as TT-63-24267, CEA-tr-R1664, 29 Sep 62 [10p].

Nevzorov, V. and Kreidik, B.
RESERVES FOR INCREASING GRAIN PRODUCTION. 21 Apr 64, 6p JPRS: 24262.
Order from OTS HC $0.50, MF $0.50 TT-64-31106

Trans. of Kolkhozno-Sovkhoznoe Proizvodstvo Tadzhikistana (USSR) 1963 [v. 17] no. 10, p. 14-17.

Petinov, N.S.
BASE PHYSIOLOGIQUE POUR UNE BONNE EFFICACITE D'UNE IRRIGATION INTERMITTENTE DES PLANTATIONS DE BLE. Org.40.
Order from CNRS G/R-3752

Trans. in French of Akademiya Nauk SSSR. Izvestiya. Seriya Biologicheskaya, 1961 [v.26, no.5] p.717-728.

ASTRONOMY

Astrophysics

PRESENT-DAY PROBLEMS OF RADIOASTRONOMY. Jul 64, 10p.
Order from HMSO $0.77, $9.86/year in NLL Translations Bulletin, 1964, v. 6, no. 7 (p. 644-653)

Trans. of Akademiya Nauk SSSR. Vestnik, 1964 [v. 34] no. 2, p. 13-16.

PROBLEMS OF COSMOGONY, 1955, VOL. 4. 29 May 64, 301p JPRS: 24851.
Order from OTS HC $5.00, MF $1.50 TT-64-31375

Trans. of Voprosy Kosmogonii (USSR) 1955, v. 4, p. 1-303.

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BIOGRAPHIES OF SOVIET SCIENTISTS. 14 Sep 64, 33p JPRS: 26380
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Contents:
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Consists of abstracts of articles from selected scientific and technical journals of Hungary and Rumania.

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TRANSLATIONS ON COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY NO. 79. 21 Apr 64, 24p JPRS: 24268.
Order from OTS HC $0.75, MF $0.50 TT-64-31109

Consists of 4 articles from Mar 64 issues of various journals and newspapers.

Separate entries have been prepared for the individual articles.

UKRAINIAN SOVIET SOCIALIST REPUBLIC; ACCELERATION; CHEMOTHERAPHY. 25 Aug 64, 66p 53refs JPRS: 26116.
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Consists of abstracts of articles from USSR scientific and technical journals.

Contents:

I. Biology
- Biochemistry
- Entomology
- Microbiology
- Phytology
- Radiobiology

II. Medicine
- Antibiotics
- Cardiovascular diseases
- Diagnosis
- Epidemiology
- Forensic medicine
- Gerontology
- Hematology
- Immunology
- Instruments and equipment
- Neuropathology
- Nuclear medicine
- Oncology
- Pharmacology and toxicology
- Physiology
- Public health
- Surgery
- Therapy
- Veterinary medicine.

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METEOROLOGICAL OBSERVATIONS AND INSTRUMENTATION. 4 Aug 64, 66p 145refs JPRS: 25718.
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METEOROLOGY AND HYDROLOGY, 1964, NO. 2 [SELECTED] ARTICLES. 15 Apr 64, 88p 43refs JPRS: 24202.
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Contains summaries or translations of 11 selected articles from Feb, Jul 64 issues of various Chinese journals and newspapers.

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Trans. of 5 selected articles from Jun-Aug 64 issues of 3 Communist Chinese journals and newspapers.

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EAST EUROPEAN HEAVY INDUSTRY: TRANSLATIONS NO. 182. 7 Aug 64, 52p JPRS: 25782.
Order from OTS HC $3.00, MF $0.75 TT-64-41053

Trans. of 7 selected articles from May-Jul 64 issues of various journals of East Germany, Hungary, Poland and Rumania.

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Trans. of 4 selected articles from Apr-Jun 64 issues of 3 Rumanian and Polish journals.

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Order from OTS HC $2.00, MF $0.50 TT-64-41313

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Order from HMSO $0.77, $9.86/year TT-64-12584-7

This bulletin includes translations available for purchase or on loan from N. L. L. and 5 articles from Jan-Feb 64 issues of 3 Russian journals.

Separate entries have been prepared for the 5 articles.

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JPRS: 24,796

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(Vestnik Sel'skokhozyaistvennoi Nauki,
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1963, VOL.6 , NO. 12

USSR STOCK BREEDING

Following are the translations of three articles on Soviet stock breeding in the Russian-language journal Vestnik Sel'skokhozyaystvennoy Nauki (Agricultural Science Herald). Complete bibliographic information accompanies each article.

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1964, NO. 2

FERTILIZERS FOR POTATOES AND SUGAR BEETS AND NUTRIENT MIXTURES IN HYDROPONICS

- USSR -

/Following is the translation of three articles in the Russian-language journal Agrokhimiya (Agrochemistry), No 2, Moscow, February 1964. Additional bibliographic data accompanies each article./

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ALUMINUM ALLOYS: COLLECTION OF ARTICLES
(Alyuminievye Splavy)

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SINTERED ALLOYS
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ALUMINUM ALLOYS

- USSR -

/Following is a translation of the Russian-language book Alyuminiyevyye Splavy (English version above), Issue 2, Sintered Alloys, a collection of articles edited by I.N. Fridlyander, Moscow, 1963, pages 2-176. Additional bibliographic information accompanies each article./

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(PRIMENENIE VAKUUMA V METALLURGII)

Moscow, 1963

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VACUUM TREATMENT OF METALS

- USSR -

Following is a translation of four articles from the Russian-language book Primenenie Vakuuma v Metallurgii, (Application of Vacuum in Metallurgy), a Symposium, Publishing House of the Academy of Sciences of the USSR, Moscow, 1963. Complete bibliographic information accompanies each article.

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(Arkhiv Anatomii, Gistologii i Embriologii)

1964, VOL. 46, NO. 3

ANTHROPOLOGICAL STUDIES IN THE USSR

/Following is the translation of three articles in the Russian-language publication Arkhiv Anatomii, Gistologii i Embriologii (Archives of Anatomy, Histology, and Embryology), Leningrad, Volume 46, No 3, 1964. Complete bibliographic data accompanies each article./

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BIOPHYSICS

(BIOFIZIKA)

1963, VOL. 8, NO. 1

RECENT STUDIES ON NUCLEIC ACIDS

- USSR -

[Following is the translation of articles in the Russian-language publication Biofizika (Biophysics), Moscow, Vol VIII, No 1, 1963. Complete bibliographic information accompanies each article.]

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BIOPHYSICAL STUDIES ON POLYMERS, NUCLEIC ACIDS AND BRAIN NEURONS

- USSR -

Following is a complete translation of three articles in Biofizika (Biophysics), Vol 8, No 3, 1963. Complete bibliographic information accompanies each article.

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BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE

(BYULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY)

1964, VOL. 57, NO. 2

JPRS: 24,301

STUDIES OF PHYSIOLOGICAL REACTIONS TO IRRADIATION AND OTHER FACTORS, AND THE USE OF BIOTELEMETRY

- USSR -

/Following is the translation of seven articles in the Russian-language publication Byulleten' Eksperimental'noy Biologii i Meditsiny (Bulletin of Experimental Biology and Medicine, Moscow, No 2, 1964. Additional bibliographic data accompanies each article./

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JPRS: 24,106

BULLETIN OF TECHNICAL AND ECONOMIC INFORMATION

(BYULLETEN' TEKHNIKO-EKONOMICHESKOI INFORMATSII)

1963, NO. 12

USSR Industrial Development

SOVIET PRECISION EQUIPMENT

No. 132

This serial publication contains translations of selected articles on precision equipment in the Soviet Union, on the specific subjects indicated in the table of contents. Complete bibliographic information accompanies each article.

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COLLECTION OF WORKS OF THE CENTRAL SCIENTIFIC RESEARCH INSTITUTE OF FERROUS METALLURGY IMENI I. P. BARDIN

(Tsentral'nyi Nauchno-Issledovatel'skii Institut Chernoi Metallurgii. Sbornik Trudov)

1963, no. 35

SPECIAL STEELS AND ALLOYS

/Following is the translation of selected portions from the Russian-language publication Spetsial'nyye Stali i Splavy (English version above) //Collection of Works of the Central Scientific Research Institute of Ferrous Metallurgy imeni I.P. Bardin//, Moscow, Metallurgizdat, No 35, 1963. Authors and specific page numbers accompany each article./

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/Following is the translation of the Russian-language publication Inzhenernyy Zhurnal (Engineering Journal), Editor-in-Chief A. A. Nikol'skiy, published by the Academy of Sciences USSR, Moscow, Vol III, No 2, 1963, pages 202-416. Additional bibliographic information accompanies each article./

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[Following are translations of seven articles in the above-named Russian-language journal. Complete bibliographic information accompanies each article.]

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1964, VOL. 40, NO. 3.

TRANSLATIONS FROM RYBNOYE KHOZYAYSTVO

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No 1, 1964

[Following are translations of four articles from the above-named Russian-language journal. Complete bibliographic information accompanies each article.]

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1964, VOL. 40, NO. 2

FISHERIES MANAGEMENT AND FISH BY-PRODUCTS IN LIVESTOCK FEEDING

- USSR -

/Following is the translation of four articles in the Russian-language publication Rybnoye khozyaystvo (Fisheries), No 2, 1964, Moscow. Additional bibliographic data accompanies each article./

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RECENT DEVELOPMENTS IN THE FISHING INDUSTRY

- USSR -

Following is a translation of six articles in the Russian-language journal Rybnoye Khozyaystvo (Fishing Industry), No 5, Moscow, 1964. Complete bibliographic information accompanies each article.

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(Voprosy Kurortologii, Fizioterapii i Lechebnoi Fizicheskoi Kul'tury)

1964, VOL. 29, NO. 2.

HEALTH-RESORT SCIENCE, PHYSIOTHERAPY, AND THERAPEUTIC PHYSICAL CULTURE

[Following is a translation of 5 articles in the Russian-language periodical Voprosy Kurortologii, Fizioterapii, i Lechebnoy Fizicheskoy Kul'tury (Problems of Health-Resort Science, Physiotherapy, and Therapeutic Physical Culture), Moscow, Vol. XXIX, No. 2, Mar/Apr 1964. Complete bibliographic information accompanies each article]

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1964, VOL. 9, NO. 1

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[Following are translations of six articles from the Russian-language journal Vestnik Sel'skokhozyaystvennoy Nauki (Herald of Agricultural Science), No 1, Moscow, 1964. Complete bibliographic information accompanies each article.]

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HERALD OF THE ACADEMY OF MEDICAL SCIENCES USSR
(Akademiya Meditsinskikh Nauk SSSR. Vestnik)

1964, VOL. 19,.NO. 1

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No 1, 1964

Following is a complete translation of the Russian-language medical journal Vestnik Akademii Meditsinskikh Nauk SSSR (Herald of the Academy of Medical Sciences USSR) Vol XIX, No 1, Moscow, 1964, pages 3-96.

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HERALD OF THE ACADEMY OF MEDICAL SCIENCES USSR
(Akademiya Meditsinskikh Nauk SSSR. Vestnik)

1964, VOL. 19, NO. 2.

Vestnik OF USSR ACADEMY OF MEDICAL SCIENCES

Vol XIX, No 2

Following is a complete translation of the Russian-language medical journal Vestnik Akademii Meditsinskikh Nauk SSSR (Herald of the Academy of Medical Sciences USSR), Vol XIX, No 2, Moscow, 1964, pages 3-109.

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29 October - 1 November 1963
Moscow

HYGIENE AND SANITATION

(GIGIENA I SANITARIIA)

1964, VOL. 29, NO. 3

USSR HEALTH PROTECTION DEVELOPMENTS

Following are translations of articles on health protection research in the Soviet Union. Complete bibliographic information accompanies each article.

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HYGIENE AND SANITATION
(Gigiena i Sanitariya)

1964, VOL. 29, NO. 4.

STUDIES IN HYGIENE AND SANITATION IN THE USSR

[Following is the translation of articles in the Russian-language publication Gigiyena i Sanitariya (Hygiene and Sanitation), Moscow Vol 29, No 4, 1964. Complete bibliographic information accompanies each article.]

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HYGIENE AND SANITATION
(Gigiena i Sanitariya)

1964, VOL. 29, NO. 5.

TRANSLATIONS FROM GIGIYENA I SANITARIYA
(Hygiene and Sanitation)
Vol IXXX, No 5, Moscow, May 1964.

[Following is a translation of 10 articles in the above-named Russian-language journal. Complete bibliographic information accompanies each article.]

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INSTRUMENT-BUILDING

(PRIBOROSTROENIE)

1964, NO. 1

DEVELOPMENT OF CONTROL SYSTEMS IN THE USSR

/Following is a translation of a number of articles by various authors in the Russian-language periodical Priborostroyeniye (Instrument-Building), No 1, Moscow, 1964. Additional bibliographic information accompanies each article./

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JPRS: 24,055

JOURNAL OF COMPUTER MATHEMATICS AND MATHEMATICAL PHYSICS

(ZHURNAL VYCHISLITEL'NOI MATEMATIKI I MATEMATICHESKOI FIZIKI)

1964, VOL. 4, NO. 1

INHIBITOR CIRCUITS, RATE CONTROL DEVICES AND COMPILERS

- USSR -

Following is the translation of three articles in the Russian-language periodical Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki (Journal of Computer Mathematics and Mathematical Physics). Vol 4, No 1, Moscow, January-February 1964. Complete bibliographic information accompanies each article.

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JPRS: 26,246

JOURNAL OF GENERAL BIOLOGY

(Zhurnal Obshchei Biologii)

1964, VOL. 25, NO. 3

SOVIET STUDIES ON GENERAL BIOLOGY

[Following is a translation of three articles from the Russian-language journal Zhurnal Obshchey Biologii (Journal of General Biology), Vol. XXV, No. 3, Moscow, May-June 1964, pp. 210-216, 217-223, 224-229.]

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JOURNAL OF HIGHER NERVOUS ACTIVITY

(ZHURNAL VYSSHEI NERVNOI DEYATEL'NOSTI)

1964, VOL. 14, NO. 1

JPRS: 24,249

STUDIES IN HIGHER NERVOUS ACTIVITY

[Following are translations of ten articles in the Russian-language journal Zhurnal Vysshey Nervnoy Deyatel'nosti imeni I. P. Pavlova (Journal of Higher Nervous Activity imeni I. P. Pavlova), Moscow, Vol 14, No 1, 1964. Complete bibliographical information accompanies each article.]

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JOURNAL OF HIGHER NERVOUS ACTIVITY
(Zhurnal Vysshei Nervnoi Deyatel'nosti)
1964, VOL. 14, NO. 3

STUDIES ON CONDITIONED REFLEXES

- USSR -

Following is a translation of eight articles in the Russian-language periodical Zhurnal vysshey nervnoy deyatel'nosti (Journal of Higher Nervous Activity), Vol XIV, No 3, Moscow, 1964. Authors names accompany each article.

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JPRS: 24,225

JOURNAL OF MICROBIOLOGY, EPIDEMIOLOGY AND IMMUNOBIOLOGY

(ZHURNAL MIKROBIOLOGII, EPIDEMIOLOGII I IMMUNOBIOLOGII)

1964, VOL. 41, NO. 3

TULAREMIA VARIABILITY, ULTRASONICS ALTERATION OF SALMONELLA AND SHIGELLA, AND BACTERICIDAL EFFECT OF SOME LACTONES AND LACTAMS

- USSR -

/Following is the translation of three articles in the Russian-language publication Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii (Journal of Microbiology, Epidemiology, and Immunobiology), No 3, March 1964, Moscow. Complete bibliographic data accompanies each article./

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JOURNAL OF OTORHINOLARYNGOLOGY
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1964, VOL. 26, NO. 1 JPRS: 24,519

STUDIES IN AUDITORY MEDICAL RESEARCH

- USSR -

Following is a translation of three articles in the Russian-language periodical Vestnik otorinolaringologii (Journal of Otorhinolaryngology), No 1, Moscow, Jan-Feb 1964. Complete bibliographic information accompanies each article.

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JPRS: 24,280

JOURNAL OF THE ALL-UNION CHEMICAL SOCIETY IMENI D. I. MENDELEEV
(VSESOYUZNOE KHIMICHESKOE OBSHCHESTVO. ZHURNAL)

1964, VOL. 9, NO. 1

ECONOMICS OF THE USSR CHEMICAL INDUSTRY

[Following are translations of selected articles from the Russian-language publication Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva im. D. I. Mendeleyeva (Journal of the All-Union Chemical Society imeni D. I. Mendeleyev), Moscow, Vol 9, No 1, 1964. Complete bibliographical information will be provided with the individual articles.]

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JOURNAL OF ZOOLOGY JPRS: 24,198

(ZOOLOGICHESKII ZHURNAL)

1964, VOL. 43, NO. 2

ENTOMOLOGICAL, ORNITHOLOGICAL, AND HYDROBIOLOGICAL RESEARCH

Following is a translation of 5 articles in the Russian-language periodical Zoologicheskiy zhurnal (Journal of Zoology), Vol XLIII, No 2, Moscow, 1964.

Complete bibliographic information, when supplied by the author, accompanies each article.

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(Glavnaya Geofizicheskaya Observatoriya, Leningrad. Trudy)
1963, VOL. 146(208)

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MEDICAL PARASITOLOGY AND PARASITIC DISEASES

(Meditsinskaya Parazitologiya i Parazitarnye Bolezni)

1964, VOL. 33, NO. 3

STUDIES ON ECHINOCOCCOSIS IN THE SOVIET UNION

Following is the translation of three articles in the Russian-language periodical Meditsinskaya parazitologiya i parazitarnyye bolezni (Medical Parasitology and Parasitic Diseases), Moscow, Vol XXXIII, No 3, May/June 1964. Complete bibliographic information accompanies each article.

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METEOROLOGY AND HYDROLOGY

(METEOROLOGIYA I GIDROLOGIYA)

1964, NO. 2 JPRS: 24,202

ARTICLES ON METEOROLOGY AND HYDROLOGY

- USSR -

[Following are translations of articles taken from Meteorologiya i Gidrologiya (Meteorology and Hydrology), No 2, Moscow, February 1964. Full bibliographic information is given with each article.]

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JPRS: 24,587

TRANSLATIONS FROM METEOROLOGY AND HYDROLOGY

No 3, 1964

- USSR -

This report contains translations of selected articles from the Russian-language journal Meteorologiya i Gidrologiya (Meteorology and Hydrology), Moscow, No 3, March 1964. Complete bibliographic information accompanies each article.

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JPRS: 24,860

METEOROLOGY AND HYDROLOGY

METEOROLOGIYA I GIDROLOGIYA)

1964, NO. 4

SELECTED ARTICLES ON HYDROMETEOROLOGY

-USSR-

[Following is a translation of 10 articles in the Russian-language periodical Meteorologiya i Gidrologiya (Meteorology and Hydrology), No. 4, 1964].

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JPRS: 25,718

METEOROLOGY AND HYDROLOGY

1964, NO. 6

METEOROLOGICAL OBSERVATIONS AND INSTRUMENTATION

- USSR -

[Following is a translation of twelve articles in the Russian-language journal Meteorologiya i Gidrologiya (Meteorology and Hydrology), No. 6, Moscow, June 1964. Authors' names and affiliations accompany each article.]

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(Voennaya Epidemiologiya)

Leningrad, 1962

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(Izvestiya Vysshikh Uchebnykh Zavedenii. Tsvetnaya Metallurgiya)

1963, VOL. 6, NO. 6.

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1963, VOL. 6, NO. 2

Izvestiya VUZov: NONFERROUS METALLURGY

- USSR -

No 2, 1963

Following is a translation of the Russian-language journal Izvestiya Vysshikh Uchebnykh Zavedeniy: Tsvetnaya Metallurgiya (News of Higher Educational Institutions: Nonferrous Metallurgy), No 2, 1963, Ordzhonokidze, pp 1-187.

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NEWS OF INSTITUTES OF HIGHER LEARNING: INSTRUMENT MANUFACTURE

(Izvestiya Vysshikh Uchebnykh Zavedenii. Priborostroenie)

1964, VOL. 7, NO. 1

Izvestiya VUZov: INSTRUMENT BUILDING

- USSR -

No 1, 1964

Following is a complete translation of the Russian-language publication Izvestiya Vysshikh Uchebnykh Zavedeniy, Priborostroyeniye (News of Higher Educational Institutions: Instrument Building) edited by S. I. Zilitinkevich, Leningrad, Vol 7, No 1, 1964, pages 1-162.

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(Izvestiya Vysshikh Uchebnykh Zavedenii. Tsvetnaya Metallurgiya)

1963, VOL. 6, NO. 4.

/Following is the translation cover-to-cover of the Russian-language publication Izvestiya vysshikh uchebnykh zavedeniy -- Tsvetnaya metallurgiya (News of the Higher Educational Institutions -- Non-Ferrous Metallurgy), No 4, 1963, Ordzhonikidze, pages 1-151./

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OCEANOLOGY

(OKEANOLOGIYA)

1963, VOL. 3, NO. 6

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OCEANOLOGICAL STUDIES IN THE BERING SEA AND INDIAN AND PACIFIC OCEANS

[Following are translations of three articles in the Russian-language journal Okeanologiya (Oceanology), Vol III, No 6, Moscow, 1963. Complete bibliographical information accompanies each article.]

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ORTHOPEDICS, TRAUMATOLOGY AND PROSTHETICS

(Ortopediya, Travmatologiya i Protezirovanie)

1964, VOL. 25, NO. 4

SOVIET STUDIES ON BONE GRAFTING

[Following is a translation of articles selected from the Russian-language journal Ortopediya Travmatologiya i Protezirovaniye (Orthopedics, Traumatology and Prosthetics), Vol 25, No 4, Moscow, April 1964. Complete bibliographic information accompanies each article.]

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(CHUNG KUO K'O HSUEH YUAN KAO FEN TZU HSUEH SHU HUI I HUI K'AN: 1961)

Peiping, 1963

JPRS: 24,289

POLYMER CHEMISTRY IN COMMUNIST CHINA

This publication contains translations of selected articles on polymer chemistry in Communist China in the Chinese-language publication Chung-kuo K'o-hsueh-yuan Kao-fen-tzu Hsueh-shu Hui-i Hui-k'an: 1961 (Papers of the Chinese Academy of Sciences Symposium on Polymer Chemistry: 1961), Peiping, 1963. Complete bibliographic information accompanies each article.

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PHARMACOLOGY AND TOXICOLOGY

(FARMAKOLOGIYA I TOKSIKOLOGIYA)

1964, VOL. 27, NO. 1

RESEARCH ON RADIATION SICKNESS AND PROTECTIVE MEASURES

- USSR -

Following is the translation of three article from the Russian-language periodical Farmakologiya i Toksikologiya (Pharmacology and Toxicology), Moscow, Vol 27, No 1, 1964. Complete bibliographic information accompanies each article.

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POLISH REVIEW OF RADIOLOGY AND NUCLEAR MEDICINE
(Polski Przegląd Radiologii i Medycyny Nuklearnej)

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PROBLEMS OF COSMOGONY

Volume IV

- USSR -

Following is the complete translation of a Russian-language collection of articles entitled Voprosy kosmogonii (Problems of Cosmogony), Volume IV, published by the Academy of Sciences USSR, Moscow, 1955, pages 1-303, and signed to the press on 27 July 1955. The names of the authors accompany each section or individual article.

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PROBLEMS OF CYBERNETICS
(Problemy Kibernetiki)

1963, VOL. 10

PROBLEMS OF CYBERNETICS

No 10, 1963

- USSR -

Following is the complete translation of the Russian-language book Problemy kibernetiki (Problems of Cybernetics) issue No. 10, edited by A. A. Lyapunov. State Publishing House of Physical and Mathematical Literature, Moscow, 1963, pages 1-288. Authors names accompany each section.

NOTE: The collections "Problems of Cybernetics" are issued under the general direction of the Scientific Council on the Complex Problem of Cybernetics of the Academy of Sciences USSR.

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JPRS: 24,183

PROBLEMS OF HEALTH RESORT SCIENCE, PHYSIOTHERAPY AND PHYSICAL CULTURE
(VOPROSY KURORTOLOGII, FIZIOTERAPII I LECHEBNOI FIZICHESKOI KULTURY)

1963, VOL. 28, NO. 6

PHYSIOLOGICAL MECHANISMS OF THE HUMAN ORGANISM AND METHODS OF STUDYING THEM

- USSR -

[Following is a translation of several articles from the Russian-language periodical Voprosy Kurortologii Fizioterapii i Lechebnoy Fizicheskoy Kul'tury (Problems of Health Resort Science, Physiotherapy, and Medical Physical Culture), No. 6, Moscow, 1963. Additional bibliographic information accompanies each article.]

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(Voprosy Teploobmena i Gidravliki Dvukhfaznykh Sred: Sbornik Statei)
Moscow/Leningrad, 1961

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PROBLEMS OF HEMATOLOGY AND BLOOD TRANSFUSION

(PROBLEMY GEMATOLOGII I PERELEVANIYA KROVI)

1964, VOL. 10, NO. 2

JPRS: 24,118

STUDIES IN BLOOD TRANSFUSION

- USSR -

Following is a translation of four articles in the Russian-language periodical Problemy gematologii i perelivaniya krovi (Problems of Hematology and Blood Transfusion), Vol X, No 2, Moscow, February 1964. Complete bibliographic information accompanies each article.

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PROBLEMS OF ONCOLOGY

(Voprosy Onkologii)

1964, VOL. 10, NO. 3

STUDIES OF TUMORS

- USSR -

[Following is the translation of articles in the Russian-language publication Voprosy Onkologii (Problems of Oncology), Leningrad, Vol X, No 3, 1964. Additional bibliographic information accompanies each article.]

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The Effect of Ribonucleic Acid on Tumor Cell Growth, by V. A. Artamonova ...	13	22-26

PROBLEMS OF PSYCHOLOGY

(VOPROSY PSIKHOLOGII)

1964, VOL. 10, NO. 1

JPRS: 24,374

SCHOOLCHILDREN'S PHYSICAL AND EMOTIONAL RESPONSES

- USSR -

[Following is the translation of three articles in the Russian-language periodical Voprosy Psikhologii (Problems of Psychology), Vol 10, No 1, Moscow, 1964. Additional bibliographic data accompanies each article.]

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Some Features of the Attitudes of Young School-Children to Literary Heroes, by L. N. Rozhina	23	163

PROCEEDINGS OF THE LENINGRAD HYDROMETEOROLOGICAL INSTITUTE

(Gidrometeorologicheskii Institut, Leningrad. Trudy)

1963, VOL. 15

TURBULENT DIFFUSION IN THE SURFACE LAYER OF THE EARTH'S ATMOSPHERE

- USSR -

Following is a complete translation of a collection of articles in the Russian-language periodical Trudy Leningradskogo gidrometeorologicheskogo instituta (Proceedings of the Leningrad Hydrometeorological Institute) entitled Voprosy turbulentnoy diffuzii v prizemnom sloye atmosfery (Turbulent Diffusion in the Surface Layer of the Earth's Atmosphere), No 15, published by Leningrad University, 1963, pages 1-240, signed to the press on 3 May 1963.

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An Unbalanced Automatic Temperature Gradient Meter for Field Use, by L. G. Kachurin ... 220

An Automatically Recording Differential Balance Meter, by B. Ya. Tolstobrov 232

Automatic Integral Fluctuation Meters, by L. G. Kachurin 242

Electronic Anemo-Fluctuation Meter, by M. L. Gol'denberg 247

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RADIOACTIVE CONTAMINATION OF THE SEAS AND OCEANS

(Radioaktivnaya Zagryaznennost' Morei i Okeanov)
MOSCOW, 1964

Following is the translation of selections from the Russian-language monograph Radioaktivnaya Zagryaznennost' Morey i Okeanov (Radioactive Contamination of the Seas and Oceans), edited by V. I. Baranov (Editor-in-Chief) and L. M. Khitrov, Moscow, 1964. Original page numbers and authors' names appear with each chapter.

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Radioactive Contamination of Organisms of the Black Sea, Results and Methodical Peculiarities of Determining Strontium-90 in the Cystoseira, by G. V. Vende ... 77 143-150

The Radioactivity of Certain Organisms of the Black Sea, by V. P. Parchevskii. 87 151-169

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JPRS: 24,494

REPORTS OF THE ACADEMY OF SCIENCES UKRAINIAN SSR
(Akademiya Nauk URSR, Kiev. Dopovidi)

1964, NO. 3

SUMMARIES OF PLANS FOR SCIENTIFIC RESEARCH WORK IN THE UKRAINIAN SSR IN 1964-1965

This report consists of translations of four brief reports on plans for scientific research in the Ukrainian SSR, as indicated in the table of contents below. Complete bibliographic information accompanies each article.

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RESEARCH ON HEAT-RESISTING ALLOYS

1959, VOL. 5

- USSR -

Following is a translation of five articles in the Russian-language book Issledovaniya po zharoprochnym splavam Tom V (Research on Heat-Resisting Alloys, Vol. V), Moscow, Institute of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences, 1959. Authors names accompany each article.

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Improving Quality and Deformability of Alloys and Alloy Steels by Electroslag Remelting in a Water-Cooled Metal Crystallizer, by E. E. Paton ...	15	228-233
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Application of Ceramic Coatings by Electrophoresis, by A. P. Obukhov ...	25	303-307

SCIENCE JOURNAL (SCIENTIA)

(K'o Hsüeh T'ung Pao)

1964, no. 1

TRANSLATIONS ON COMMUNIST CHINA'S
SCIENCE AND TECHNOLOGY

No. 86

This serial publication contains summaries or translations (as indicated) of selected articles on Communist China's science and technology, on the specific subjects reflected in the table of contents. Complete bibliographic information accompanies each article.

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Phosphorylation of Allyl Aldehyde Polymer, by Yang Shih-hsein ...	14	61-62
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32 New Polytypes (Polymorphs) of Silicon Carbide, by Kuo Ch'ang-lin	23	78-81

JPRS: 24,862

SCIENCE JOURNAL (SCIENTIA)
(K'o Hsüeh T'ung Pao)

1964, No. 3

TRANSLATIONS ON COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY

No. 88

This serial publication contains summaries or translations (as indicated) of selected articles on Communist China's Science and Technology, on the specific subjects reflected in the table of contents. Complete bibliographic information accompanies each article.

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A New Catalyst of 1,4 Polymerization of a - Butadiene, by Hsieh, Hung-ch'uan ...	25	246-248
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Limitations of Structure and Wave Pattern of Resonant Cavity of Light Frequency, by Wang, Chih-chiang.	76	269-271
Advances in the Chemopharmacodynamics of Antihypertensive Drugs Acting on the Sympathetic Nerve Endings, by Pai, Tung-lu.	82	208-217
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JPRS: 25,267

SCIENCE JOURNAL (SCIENTIA)
(K'o Hsueh T'ung Pao)

1964, NO. 4

TRANSLATIONS ON COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY

No. 94

This serial publication contains summaries or translations (as indicated) of selected articles on Communist China's science and technology, on the specific subjects reflected in the table of contents. Complete bibliographic information accompanies each article.

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SCIENTIFIC REPORTS OF THE HIGHER SCHOOL. BIOLOGICAL SCIENCES

(NAUCHNYE DOKLADY VYSSHEI SHKOLY. BIOLOGICHESKIE NAUKI)

1964, NO. 1

ARTICLES ON BIOLOGY AND BOTANY

-USSR-

[Following is the translation of a series of articles from Nauchnyye doklady vysshe shkoly, biologicheskiye nauki (Scientific Reports of the Higher School, Biological Sciences), No 1, Moscow, January 1964. Complete bibliographic information accompanies each article.]

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The Physiological Activity of Generative Organs and the Plant Reaction to Self-Pollination, by I. M. Molchan.	54	175

JPRS: 25,882

SOVIET PUBLIC HEALTH

1964, VOL. 23, NO. 5

PUBLIC HEALTH IN THE USSR

/Following is a translation of a number of articles by various authors from the Russian-language periodical Sovetskoye Zdravookhraneniye (Soviet Public Health), Vol 23, No 5, Moscow, 1964. Additional bibliographic information accompanies each article./

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The Work of Medical Aviation in the Virgin Soil Areas, by M. L. Filimonov	26	29-32
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SOVIET SCHOOLS

(Radyans'ka Shkola)
1963, VOL. 42, NO. 5

STUDIES IN EDUCATION AND EDUCATIONAL PSYCHOLOGY

[Following are translations of three articles in the Ukrainian-language journal Radyans'ka Shkola (Soviet Schools), Kiev, Vol 42, No 5, May 1963. Complete bibliographic information accompanies each article.]

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Researchers should be Trained from Childhood, by K. B. Svechyn	1	14-17
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SPACE

(Kosmos)

1963, NO. I

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TITANIUM AND ITS ALLOYS
(Titan i Ego Splavy)

1963, VOL. 10 JPRS: 24,859

RESEARCH IN TITANIUM ALLOYS

- USSR -

Following is a translation of eight articles in the Russian-language collection Titan i yego Splavy (Titanium and Its Alloys), Moscow, No. 10, 1963. Complete bibliographic information accompanies each article.

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TRANSACTIONS OF THE INSTITUTE OF THE PHYSICS OF THE EARTH
(AKADEMIYA NAUK SSSR. INSTITUT FIZIKI ZEMLI. TRUDY)

1963, NO. 28(195)

PROBLEMS OF ENGINEERING SEISMOLOGY

No. 8

- USSR -

[Following is a translation of the Russian-language journal Voprosy inzhenernoy seysmologii 8 (English version above), Tr. instituta fiziki zemli imeni O. Yu. Shmidta (Transactions of the Institute of the Physics of the Earth imeni O. Yu. Shmidt), No. 28 (195), Moscow, 1963. Full bibliographic information is given with each article.]

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Basic Seismological Data Used in the Detailed Seismic Regioning of the Valley of the River Vakhsh, by V. I. Bune	105	77
Strains and Stresses in the Foundations of Structures During Earthquakes, by S. V. Medvedev	124	87
On Methods of Calculating Hypocentral Distances in Seismic Micro-regioning, by A. Z. Kats	134	95
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Graphs of Recurrence of Periods in Earthquakes of Various Intensity, by L. A. Skorik	164	117
Practical Methods of Calculating the Main Forms of Oscillations for Systems with Several Degrees of Freedom, by M. G. Korf	168	120

Oscillations of Arch Dams During a Seismic Disturbance, by S. V. Medvedev ... 176 126

Selection of Dynamic Equivalence for a Seismic Disturbance with an Intensity of 7, by M. G. Korf 187 135

The Behavior of Buildings Located on Different Soils During the Passage of a Seismic Wave, by S. V. Puchkov 195 141

UKRAINIAN BIOCHEMICAL JOURNAL

(UKRAYINS'KYI BIOKHIMICHNYI ZHURNAL)

1964, VOL. 36, NO. 1

JPRS: 24,164

REPORTS ON BIOCHEMISTRY FROM THE UKRAINIAN SSR

[Following is a translation of three articles in the Ukrainian- and Russian-language journal Ukrayins'kyy Biokhimichnyy Zhurnal (Ukrainian Biochemical Journal), Vol XXXVI, No 1, Kiev, 1964.]

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Synthesis and Transformation of Amino Acids and Other Organic Compounds by the Effect of Radiation and Other Types of Energy, by M. A. Kolomiichenko.	19	132

WORKS OF THE ALL-UNION SCIENTIFIC RESEARCH INSTITUTE OF MEDICAL INSTRUMENTS AND EQUIPMENT

(VSESOYUZNYI NAUCHNO-ISSLEDOVATEL'SKII INSTITUT MEDITSINSKIKH INSTRUMENTOV I OBORUDOVANIYA. TRUDY)

1963, NO. 1

JPRS: 24,264

NEW DESIGNS OF MEDICAL APPARATUS AND EQUIPMENT

USSR

[Following are translations of selected articles from Trudy Instituta - Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya (Works of the All-Union Scientific Research Institute of Medical Instruments and Equipment), No 1, 1963, Moscow, Full bibliographic reference is given with each article. The table of contents of the entire journal is included .]

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Characteristics of Electro-Aerosols of Some Medical Solutions, by A. V. Kitaev ...	86	164
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WORKS OF THE INSTITUTE OF METAL PHYSICS

(Akademiya Nauk URSR, Kiev. Instytut Metallofizyky. Sbornik Nauchnykh Rabot)

1963, NO. 17

FATIGUE AND OXIDATION OF HIGH-TEMPERATURE ALLOYS

- USSR -

Following is a translation of four articles from the Russian-language book Voprosy fiziki metallov i metallovedeniya, Sbornik nauchnykh trudov Instituta metallofiziki, No. 17 (Problems of Metals Physics and Metals Science, Works of the Institute of Metals Physics, No. 17), Kiev, Publishing House of the Ukrainian Academy of Sciences, 1963. Complete bibliographic information accompanies each article.

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Effect of Unsteady Heating on Change of Magnetic and Electrical Properties of Alloy ZhS-6K, by V. I. Borisova ...	22	120-131
Study of the Diffusion and Oxidation Processes in Alloy ZhS-6K Under Conditions of Thermal Cycling, S. D. Gertsriken ...	35	132-137

JPRS: 24,761

WORKS OF THE INSTITUTE OF METALLURGY OF THE ACADEMY OF SCIENCES
(Akademiya Nauk SSSR. Institut Metallurgii. Trudy)

1963, no. 14

STUDIES IN THE METALLURGY OF VARIOUS ALLOYS

- USSR -

Following is a translation of five articles in the Russian-language periodical Trudy Instituta Metallurgii imeni A. A. Baykova, Vypusk XIV. Metallurgiya, Metallovedeniye, Fiziko-Khimicheskiye Metody Issledovaniya, (Works of the Institute of Metallurgy imeni A. A. Baykova, No 14. Metallurgy, Metallography and Physicochemical Methods of Research), Moscow, 1963. Complete bibliographic information accompanies each article.

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Effect of Additional Alloying of the Properties of Magnesium--Neodymium Alloys, by M. D. Drits ...	17	120-129
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Change of Structure and Mechanical Properties of Alloys Based on Metallic Compounds by the Method of Substituting the Low-Melting Component, by E. M. Savitskii ...	41	147-154

WORKS OF THE STATE HYDROLOGICAL INSTITUTE

(Gosudarstvennyi Gidrologicheskii Institut. Trudy)

1963, VOL. 103

STUDIES ON RIVER ICE FLOW AND SHIFTS

- USSR -

/Following is a translation of articles published in the Russian-language periodical Trudy Gosudarstennogo Gidrologicheskogo Instituta (Works of the State Hydrological Institute), No 103, Leningrad, 1963. Full bibliographic information precedes each article./

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A. N. Chizhov: On Some Type of Mountain River Ice Regime	81	57-69

JPRS: 24,704

BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE

(Byulleten' Eksperimental'noi Biologii i Meditsiny)

1963, VOL. 56, NO. 12

EFFECTS OF RADIATION SICKNESS

- USSR -

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U. S. DEPARTMENT OF COMMERCE FIELD OFFICES

PROVIDE READY ACCESS TO COMMERCE SERVICES

- The Department of Commerce maintains Field Offices in the cities listed below for the purpose of providing ready access to the reports, publications, and services of the Business and Defense Services Administration, Bureau of International Commerce, Office of Technical Services, Office of Business Economics, and the Bureau of the Census. Information on activities of the National Bureau of Standards, Patent Office, and the Area Redevelopment Administration are also available.
- Experienced personnel will gladly assist in the solution of specific problems, explain the scope and meaning of regulations administered by the Department, and provide practical assistance in the broad field of domestic and foreign commerce. Field offices act as official sales agents of the Superintendent of Documents and stock a wide range of official Government publications relating to business. Each office maintains an extensive business reference library containing periodicals, directories, publications, and reports from official as well as private sources.
- Approximately 550 Chambers of Commerce, Manufacturers Associations, and similar business groups are official Cooperative Offices of the Department where many of the basic publications and reports of the Department are on file and available for consultation. If specific information is not on hand in the Cooperative Office, your problem will be referred to the nearest Department field office.
- These facilities have been established to assist you. You are invited to use them.

DOMESTIC TRADE

Population Count and Characteristics;
Housing Statistics;
Detailed Agricultural Data on County Basis;
Retail, Wholesale and Service Business;
Estimates on Population Movements;
National Income Statistics;
Regional Trends in United States Economy;
Biennial Volume on Business Statistics;
Current Releases and Business Indicators;
Research Sources on Market Potentials;
Development and Maintenance of Markets;
Reports on Governmental and Private Technical Research;
Regional and Community Development Techniques;
Information on Government Procurement, Sales and Contracts.

FOREIGN TRADE

Tariff Rates of Foreign Countries on Specific American Products;
Regulations Bearing on the Control of Exchange Abroad;
Administration of Regulations Imposing Import Quotas and the Details of Import Licensing Procedures in Overseas Markets;
Facts on Economic and Trade Conditions;
Business Information on Foreign Firms;
Documentation of Export and Import Shipments, Both Here and Abroad;
Statistical Data on Both Imported and Exported Products;
Assistance on Export Regulations and Problems, Including Prompt Special Service in Emergency Situations;
Trade Investment and Licensing Opportunities;
Foreign Lists of Buyers and Suppliers.

Department Field Offices

Albuquerque, N. Mex., 87101, U.S. Courthouse. 247-0311.
Anchorage, Alaska, 99501, Room 306, Loussac-Sogn Building. Phone: BR 2-9611.
Atlanta, Ga., 30303, 75 Forsyth St., N.W. JAckson 2-4121.
Baltimore, Md., 21202, 305 U.S. Customhouse, Gay and Lombard Streets. Phone: PLaza 2-8460.
Birmingham, Ala., 35203, Title Bldg., 2030 Third Ave., North. Phone: 325-3131.
Boston, Mass., 02110, Room 230, 80 Federal Street. CApitol 3-2312.
Buffalo, N.Y., 14203, 504 Federal Building, 117 Ellicott Street. Phone: 842-3208.
Charleston, S.C., 29401, No. 4, North Atlantic Wharf. Phone: 722-6551.
Charleston, W. Va., 25301, 3002 New Federal Office Building, 500 Quarrier Street. Phone: 343-6196.
Cheyenne, Wyo., 82001, 207 Majestic Bldg., 16th & Capitol Ave. Phone: 634-5920.
Chicago, Ill., 60604, 1486 New Federal Building, 219 South Dearborn Street. Phone: 828-4400.
Cincinnati, Ohio, 45202, 8028 Federal Office Building, 550 Main Street. Phone: 381-2200.
Cleveland, Ohio, 44101, 4th Floor, Federal Reserve Bank Bldg., East 6th St. & Superior Ave. 241-7900.
Dallas, Tex., 75202, Room 1200, 1114 Commerce Street. RIverside 9-3287.
Denver, Colo., 80202, 142 New Custom House, 19th & Stout Street. Phone: 297-3246.
Des Moines, Iowa, 50309, 1216 Paramount Building, 509 Grand Avenue. Phone: 284-4222.
Detroit, Mich., 48226, 445 Federal Bldg. 226-6088.
Greensboro, N.C., 27402, Room 412, U. S. Post Office Building. 275-9111.
Hartford, Conn., 06103, 18 Asylum St. Phone: 244-3530.
Honolulu, Hawaii, 96813, 202 International Savings Bldg., 1022 Bethel Street. Phone: 588667.
Houston, Tex., 77002, 5102 Federal Bldg., 515 Rusk Ave. CA 8-0611.
Jacksonville, Fla., 32202, 512 Greenleaf Building, 208 Laura Street. ELgin 4-7111.
Kansas City, Mo., 64106, Room 2011, 911 Walnut Street. BAltimore 1-7000.
Los Angeles, Calif., 90015, Room 450, Western Pacific Building, 1031 S. Broadway. 688-2833.
Memphis, Tenn., 38103, 345 Federal Office Building, 167 N. Main Street. Phone: 534-3214.
Miami, Fla., 33130, 1628 Federal Office Bldg., 51 S.W. First Avenue. Phone: 350-5267.
Milwaukee, Wis., 53203, Straus Bldg., 238 W. Wisconsin Avenue. Phone: BR 2-8600.
Minneapolis, Minn., 55401, Room 304, Federal Bldg., 110 South Fourth Street. Phone: 334-2133.
New Orleans, La., 70130, 909 Federal Office Building (South), 610 South Street. Phone: 527-6546.
New York, N. Y., 10001, 61st Fl., Empire State Bldg., 350 Fifth Avenue. LOngacre 3-3377.
Philadelphia, Pa., 19107, Jefferson Building, 1015 Chestnut Street. 597-2850.
Phoenix, Ariz., 85025, New Federal Bldg., 230 N. First Avenue. Phone: 261-3285.
Pittsburgh, Pa., 15219, Room 2201, Federal Building, 1000 Liberty Avenue. Phone: 644-2850.
Portland, Oreg., 97204, 217 Old U. S. Courthouse, 520 S. W. Morrison Street. 226-3361.
Reno, Nev., 89502, 1479 Wells Avenue. Phone: FA 2-7133.
Richmond, Va., 23240, 2105 Federal Building, 400 North 8th Street. Phone: 649-3611.
St. Louis, Mo., 63103, 2511 Federal Building, 1520 Market Street. MAin 2-4243.
Salt Lake City, Utah, 84111, 3235 Federal Building, 125 South State Street. 524-5116.
San Francisco, Calif., 94102, Federal Building, Box 36013. 450 Golden Gate Avenue. Phone: 556-5864.
Santurce, Puerto Rico, 00907, Room 628, 605 Condado Avenue. Phone: 723-4640.
Savannah, Ga., 31402, 235 U. S. Courthouse and Post Office Bldg., 125-29 Bull Street. ADams 2-4755.
Seattle, Wash., 98104, 809 Federal Office Bldg., 909 First Avenue. MUtual 2-3300.

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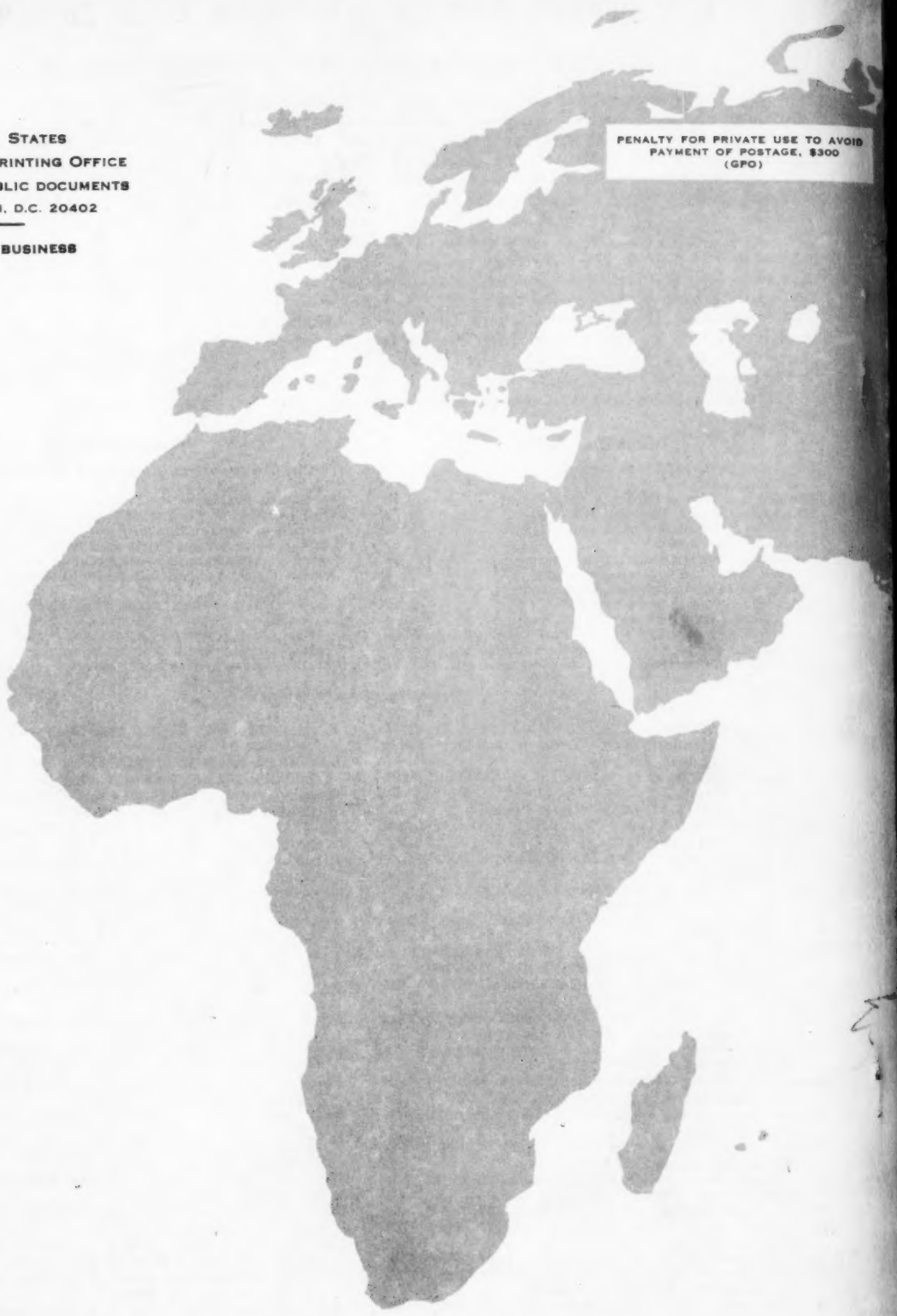

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